CONTENTS

Abstrac	t
Introdu	ction
Site-Ide	entification Numbers
Hydrole	ogic Data
	Fround Water
	Ground-Water Levels
	Ground-Water Withdrawals
	Aquifer Tests
	Water Quality
S	urface Water
	ic Data
	d References
	on of Terms
PLATE	
[Plate is	s in pocket]
	ydrologic and water-quality monitoring sites in the Big River–Mishnock River stream-aquifer system, ntral Rhode Island.
FIGUR	E
1	. Map showing location of the Big–Mishnock stream-aquifer system, central Rhode
	Island
TABLE	S
1.	Ground-water data-collection sites in the Big–Mishnock stream-aquifer system, central Rhode Island
2.	Selected water levels measured monthly in observation wells in the Big-Mishnock stream-aquifer
	system, 1996–98
3.	Water levels measured monthly in streambed piezometers in the Big–Mishnock stream-aquifer system, 1997–98
4	Historical water levels measured from wells in the Big–Mishnock stream-aquifer system, 1938–96
5.	Average daily withdrawal rates by month from public-supply wells in the Mishnock River Basin, 1995–99
6.	Ground-water levels recorded during an aquifer test conducted at West Greenwich Well 354, July 1998
7.	Ground-water levels recorded during an aquifer test conducted at West Greenwich Well 355,
0	February 1998. 55
8.	Ground-water levels recorded during an aquifer test conducted at West Greenwich Well 356, July 1998
9.	Ground-water levels recorded during an aquifer test conducted at West Greenwich Well 374, May 1999
10.	Ground-water levels recorded during an aquifer test conducted at West Greenwich Well 410, October 1999
11.	Ground-water levels recorded during an aquifer test conducted at West Greenwich Well 411, October 1999
12.	Chemical analyses and physical properties of ground water in the Big–Mishnock stream-aquifer system, 1997–99
13.	Water levels in selected ponds and reservoirs in the Big–Mishnock stream-aquifer system, 1997–98

14.	Discharge measurements and specific conductance at partial-record streamflow sites in the		
	Big-Mishnock stream-aquifer system, 1996–98	76	
15.	Specific conductance and temperature at selected surface-water sites in the Big-Mishnock		
	stream-aquifer system, 1997–98	80	
	Lithologic logs of selected wells and test holes in the Big–Mishnock stream-aquifer system		

CONVERSION FACTORS, VERTICAL DATUM, AND ABBREVIATED WATER-QUALITY UNITS

CONVERSION FACTORS

Multiply	Ву	To obtain		
cubic foot per second (ft ³ /s)	0.02832	cubic meter per second		
foot (ft)	0.3048	meter		
gallon per minute (gal/min)	0.06309	liter per second		
inch (in.)	25.4	millimeter		
mile (mi)	1.609	kilometer		
million gallons per day (Mgal/d)	0.04381	cubic meter per second		
square mile (mi ²)	2.590	square kilometer		
Temperature is given in degrees Celsius (°C), which can be converted to degrees Fahrenheit (°F) with the following equation: $^{\circ}F = 1.8$ (°C) + 32				

VERTICAL DATUM

Sea level: In this report, "sea level" refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)—a geodetic datum derived from a general adjustment of the first-order level nets of the United States and Canada, formerly called Sea Level Datum of 1929.

ABBREVIATED WATER-QUALITY UNITS:

Chemical concentrations and selected physical properties are given in metric units. Chemical concentration is given in milligrams per liter (mg/L) or micrograms per liter (µg/L).

Milligrams per liter is a unit expressing the concentration of chemical constituents in solution as weight (milligrams) of solute per unit volume (liter) of water. One milligram per liter is equivalent to one thousand micrograms per liter.

For concentrations less than 7,000 mg/L, the numerical values are the same as for concentrations in parts per million.

Specific conductance of water is expressed in microsiemens per centimeter at 25 degrees Celsius (μS/cm). This unit is equivalent to micromhos per centimeter at 25 degrees Celsius (μmho/cm), formerly used by the U.S. Geological Survey.